

① Graph the following system

$$\begin{cases} 2x + y < 1 \\ 3x - y < 1 \end{cases}$$

② Solve the following system

①

$$\begin{cases} y = 2x - 1 \\ 3x - y = -1 \end{cases}$$

Substitution

$$3x - (2x - 1) = -1$$

$$3x - 2x + 1 = -1$$

$$x + 1 = -1$$

$$x = -2$$

$$y = 2(-2) - 1$$

$$y = -5$$

②

$$\begin{cases} x + 2y = 10 \\ x + y = 6 \end{cases}$$

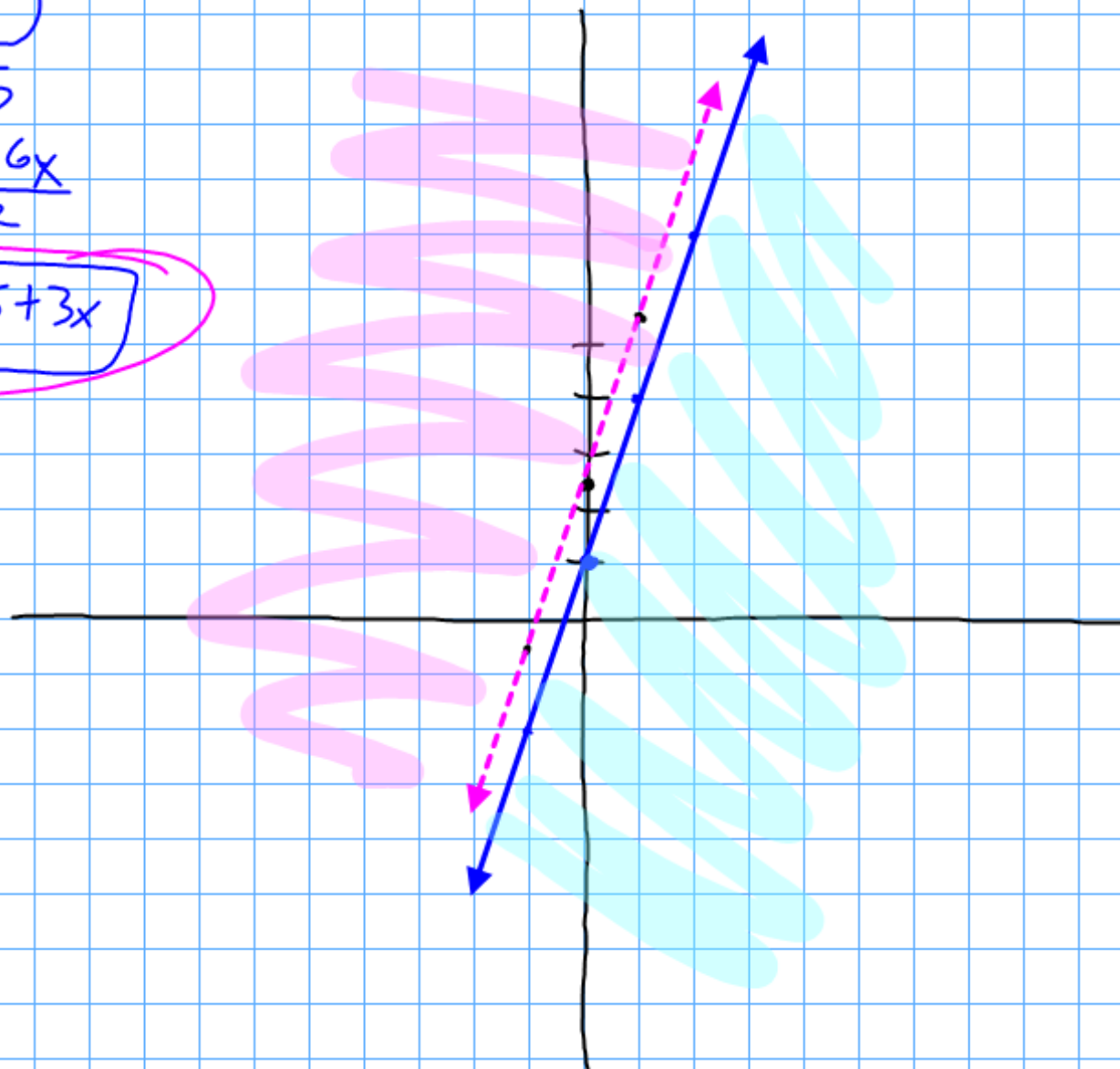
$$y = 4$$

$$x = 2$$

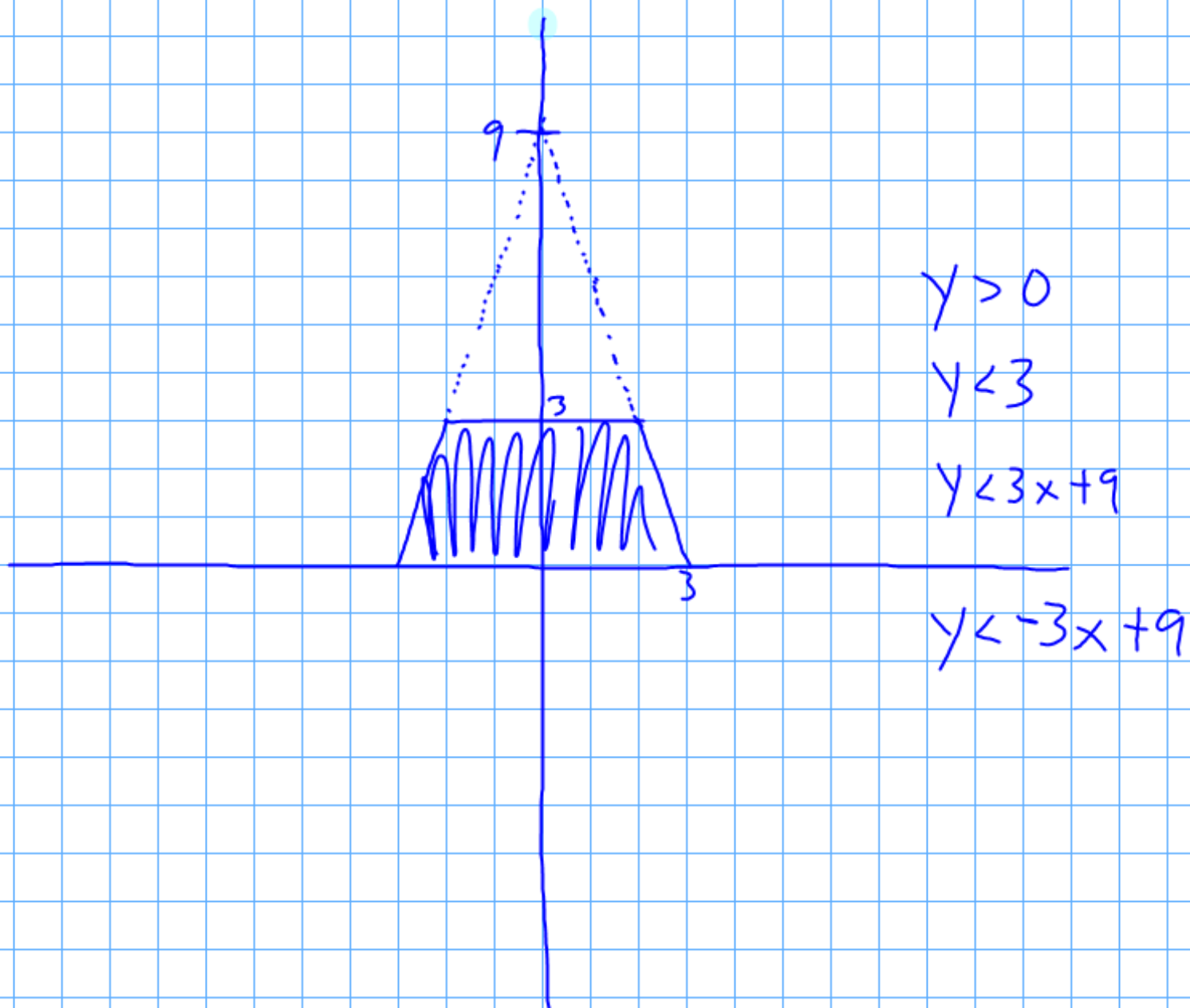
$$y \leq 3x + 1$$

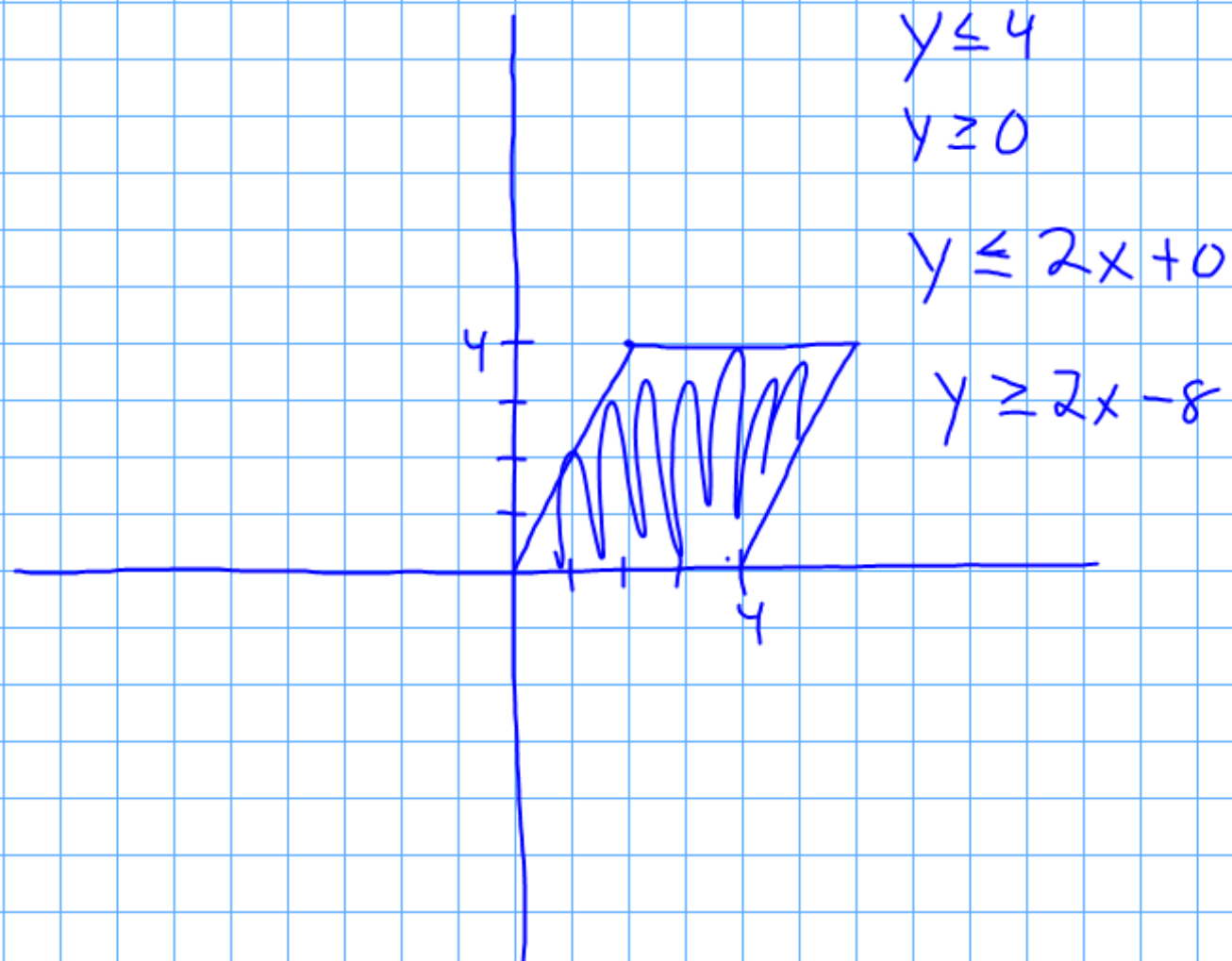
$$\begin{array}{r} -6x + 2y > 5 \\ +6x \quad \quad \quad \frac{+6x}{2} \end{array}$$

$$y > 2.5 + 3x$$



(50)





Next 5 min

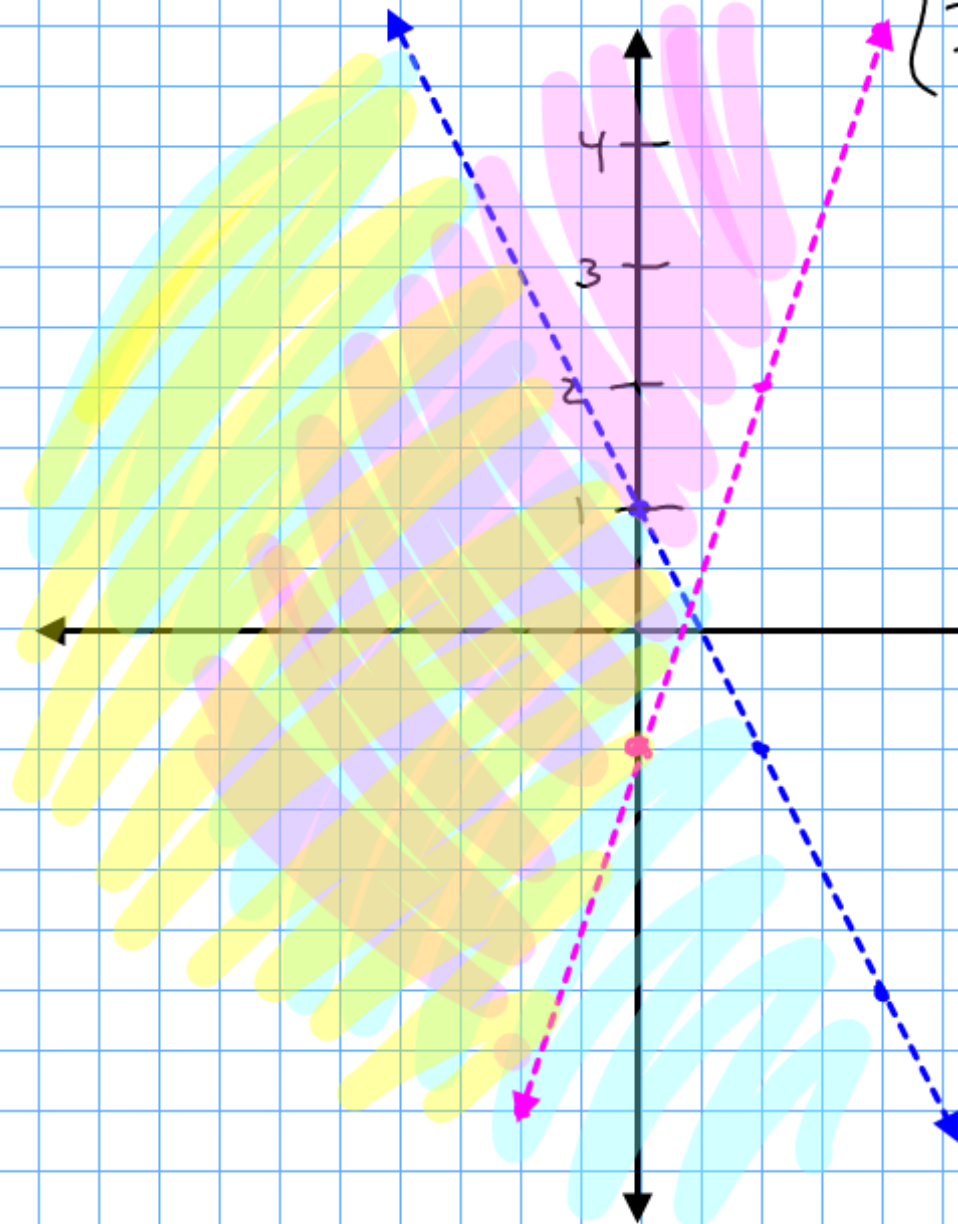
- Turn in 3.3
- Turn in Linear Systems worksheet
- write down HW

3.2 # 8, 21, 30

3.3 # 12, 13, 15, 49

① Graph the following system

$$\begin{cases} 2x + y < 1 \\ 3x - y < 1 \end{cases}$$



$$2x + y < 1$$

$$\underline{\underline{y < 1 - 2x}}$$

$$3x - y < 1$$

$$-y < 1 - 3x$$

$$\underline{\underline{y > -1 + 3x}}$$